



**WorleyParsons Komex**

resources & energy

**ASSOCIATED PLATING COMPANY**

# **Third Quarter 2006 Groundwater Monitoring Report**

**Associated Plating Company, 9636 Ann Street,  
Santa Fe Springs, California**

H0287D

27 October 2006

DEPARTMENT OF TOXIC  
SUBSTANCES CONTROL  
"OFFICIAL FILE COPY"

## **Environment & Water Resources**

5455 Garden Grove Blvd., 2nd Floor  
Westminster, CA 92683 USA  
Telephone: +1 714 379 1157  
Facsimile: +1 714 379 1160  
worleyparsons.com

© Copyright 2006 WorleyParsons Komex



**WorleyParsons Komex**

resources & energy

**ASSOCIATED PLATING COMPANY**

**THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT**

**ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA**

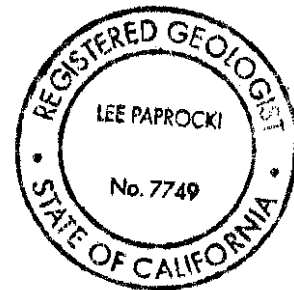
---

Lee Paprocki, a California Professional Geologist, as an employee of WorleyParsons Komex, with expertise in contaminant assessment and remediation, and groundwater hydrology, has reviewed the report with the title **Third Quarter 2006 Groundwater Monitoring Report, APC Facility, 9636 Ann Street, Santa Fe Springs, California**. Her signature and stamp appear below.

A handwritten signature of Lee Paprocki in cursive script, written over a horizontal line.

Lee Paprocki

Professional Geologist 7749





# WorleyParsons Komex

resources & energy

## ASSOCIATED PLATING COMPANY

### THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## Disclaimer

*The information presented in this document was compiled and interpreted exclusively for the purposes stated in Section 1 of the document. WorleyParsons Komex provided this report for Associated Plating Company solely for the purpose noted above.*

*WorleyParsons Komex has exercised reasonable skill, care, and diligence to assess the information acquired during the preparation of this report, but makes no guarantees or warranties as to the accuracy or completeness of this information. The information contained in this report is based upon, and limited by, the circumstances and conditions acknowledged herein, and upon information available at the time of its preparation. The information provided by others is believed to be accurate but cannot be guaranteed.*

*WorleyParsons Komex does not accept any responsibility for the use of this report for any purpose other than that stated in Section 1 and does not accept responsibility to any third party for the use in whole or in part of the contents of this report. Any alternative use, including that by a third party, or any reliance on, or decisions based on this document, is the responsibility of the alternative user or third party.*

*No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording or otherwise, without the prior permission of WorleyParsons Komex.*



**ASSOCIATED PLATING COMPANY**

**THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT**

**ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA**

---

**CONTENTS**

1.	INTRODUCTION.....	1
1.1	Geology and Hydrogeology.....	1
1.1.1	Regional Geology and Hydrogeology .....	1
1.1.2	Site Geology .....	2
1.1.3	Site Hydrogeology .....	3
1.2	Site Conceptual Model .....	3
2.	GROUNDWATER SAMPLING .....	4
2.1	Groundwater Gauging and Sampling Procedures .....	4
2.2	Waste Disposal.....	4
2.3	Quality Assurance/Quality Control Sampling .....	4
2.4	Laboratory Analyses.....	4
3.	GROUNDWATER RESULTS .....	6
3.1	Groundwater Results.....	6
3.2	QA/QC Analytical Results .....	6
4.	CONCLUSIONS AND RECOMMENDATIONS.....	8
4.1	Conclusions .....	8
4.2	Recommendations.....	8
5.	CLOSURE.....	9
6.	REFERENCES.....	10



## **ASSOCIATED PLATING COMPANY**

### **THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT**

**ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA**

---

## **Tables**

- 1 Monitoring Well Construction Details
- 2 Groundwater Elevations
- 3 TPH Carbon Range Groundwater Results
- 4 VOC Groundwater Results
- 5 Field Quality Assurance/Quality Control Sample Results

## **Figures**

- 1 Site Location Map
- 2 Site Vicinity Map
- 3 Site Plan Showing Borehole and Monitoring Well Locations
- 4 Site Conceptual Model and Proposed Operable Units
- 5 Potentiometric Surface Contour Map – August 31, 2006
- 6 TPH Concentrations in Groundwater – August 2006
- 7 Select Chlorinated Solvent Concentrations in Groundwater – August 2006

## **Appendices**

- A Monitoring Well Sampling Forms
- B Laboratory Analytical Report



## ASSOCIATED PLATING COMPANY

### THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## LIST OF ACRONYMS AND ABBREVIATIONS

APC	Associated Plating Company
bgs	below ground surface
cis-1,2-DCE	cis-1,2-dichloroethene
DOT	Department of Transportation
DTSC	Department of Toxic Substances Control
DWR	Department of Water Resources
ft/ft	feet per foot
LNAPL	light non-aqueous phase liquid
MSL	mean sea level
ug/L	micrograms per liter
mg/L	milligrams per liter
ml	milliliter
QA	quality assurance
QC	quality control
PCE	tetrachloroethene
TCE	trichloroethene
TPH	total petroleum hydrocarbons
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VOA	volatile organic analysis
VOCs	volatile organic compounds



## ASSOCIATED PLATING COMPANY

### THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## 1. INTRODUCTION

This document has been prepared by WorleyParsons Komex on behalf of the Associated Plating Company (APC). The report summarizes the groundwater sampling and well surveying conducted at 9636 Ann Street, Santa Fe Springs, California (herein referred to as the Site). The Site is located in Santa Fe Springs, California at an elevation of approximately 150 feet above mean sea level (MSL) with a local topographic gradient of less than 20 feet per mile to the southeast (**Figures 1 and 2**). Monitoring wells, MW-1 through MW-4, were installed at the Site on April 5 and 6, 2006 (**Table 1**) and were first sampled a week later (**Figure 3**).

Groundwater sampling and analysis completed at the Site during April 2006 identified the presence of chlorinated solvents and petroleum hydrocarbons.

The Department of Toxic Substances Control (DTSC), in their letter dated December 14, 2005 and in a meeting on August 22, 2006, requested that quarterly groundwater sampling be continued for one year. Therefore, third quarter groundwater sampling was conducted in August 2006 and is summarized in this report.

### 1.1 Geology and Hydrogeology

#### 1.1.1 Regional Geology and Hydrogeology

Los Angeles County is underlain by the Los Angeles County Coastal Plain and is bounded by the Santa Monica Mountains to the north, the low lying Elysian, Repetto, Merced, and Puente Hills to the northeast, a political boundary coinciding with the boundary between Los Angeles County and Orange County to the southeast, and the Pacific Ocean to the southwest. Alluvial fans formed by the Los Angeles, Rio Hondo, and San Gabriel Rivers systems have coalesced to form the Downey Plain, which represents the largest area of recent alluvial deposition in the Coastal Plain. The Downey Plain is bordered by the La Brea, Montebello, and Santa Fe Spring Plains, and the Coyote hills to the north and northeast, the Newport Inglewood uplift to the southwest, and the Coastal Plain of Orange County to the southeast (DWR, 1961). The Downey Plain slopes gently to the south with an average gradient of less than 18 feet per mile. The Site is located between the Downey Plain and the Santa Fe Springs Plain. The Santa Fe Springs Plain is located south of Whittier and east of the San Gabriel River, in the area of the City of Santa Fe Springs. The Santa Fe Springs Plain is a low, slightly rolling topographic feature and represents a continuation of the Coyote Hills Uplift to the southeast.

**ASSOCIATED PLATING COMPANY****THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT****ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA**

---

The Coastal Plain of Los Angeles County is a deep groundwater reservoir filled by unconsolidated alluvial sands, gravels, clays, and silts. Fresh-water aquifers extend to depths of over 2,000 feet. The California Department of Water Resources (DWR) divided the coastal plain into four groundwater basins: the Santa Monica Basin, the West Coast Basin, the Hollywood Basin, and the Central Basin (DWR, 1961). The Site lies within the Central Basin, which is further divided into four parts for descriptive purposes: the Los Angeles Forebay Area, the Montebello Forebay Area, the Whittier Area, and the Central Basin Pressure Area.

The Site is located in the Central Basin Pressure Area. The Central Basin Pressure Area is called a "pressure area" because the aquifers within it are confined by aquicludes over most of the area. The major regional aquitards and aquifers beneath the Site occur in the Recent Alluvium, the Upper Pleistocene Lakewood Formation, and the Lower Pleistocene San Pedro Formation. Depth intervals for the major regional hydro-stratigraphic units (aquitards and aquifers) in the Site vicinity are presented in the table below:

---

<b>Regional Hydro-stratigraphic Unit</b>	<b>Formation</b>	<b>Approximate Depth Intervals (feet below ground surface)</b>
Bellflower Aquitard	Recent Alluvium	0 – 30
Gaspur	Recent Alluvium	30 – 65
Gage	Lakewood	65 – 110
Hollydale-Jefferson	San Pedro	110 - 130
Lynwood	San Pedro	130 – 210
Silverado	San Pedro	210 – 360
Sunnyside	San Pedro	360 - 610

---

**1.1.2 Site Geology**

The Site is underlain with artificial fill composed primarily of silt from the ground surface to an approximate depth of 7 feet below ground surface (bgs). At approximately 7 feet bgs a concrete pad is encountered, which is approximately four inches thick. Underlying the concrete pad is a silt and clay layer that extends to approximately 25 feet bgs. Below the silt and clay layer is a sand and gravelly



## ASSOCIATED PLATING COMPANY

### THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

sand layer that extends to at least 48 feet bgs (**Figure 4**). Both the silt and clay layer and the sand and gravel layer correspond to the Recent Alluvium.

#### 1.1.3 Site Hydrogeology

In April 2006, first groundwater was detected between 34 and 38 feet bgs (approximately 112 feet MSL) and corresponds to the Gaspar Aquifer. In August 2006, water levels have since risen slightly to between 33 and 37 feet bgs. Groundwater flow varies between the south-southwest and south-southeast at an approximate gradient of 0.001 feet per foot (ft/ft).

#### 1.2 Site Conceptual Model

In accordance with the Site conceptual model developed below, the subsurface at the Site and Site vicinity was previously divided into three operable units: Operable Unit 1 (OU-1), Operable Unit 2 (OU-2), and Operable Unit 3 (OU-3) (**Figure 4**). OU-1 consists of fill material underlying the Site from ground surface to the top of the buried concrete pad (approximately 7 feet below ground surface). OU-2 consists of on-Site soils and the first groundwater zone, from the base of the concrete pad to approximately 50 feet below ground surface (bgs). OU-3 consists of the off-Site soils and the first groundwater zone.

Fill material in OU-1 is impacted by petroleum hydrocarbons (C7 to C36), fuel volatile organic compounds (VOCs), probably representing pre-existing contamination from the former storage tank, and chlorinated solvent compounds, consistent with releases of tetrachloroethylene (PCE) from the APC facility.



## **ASSOCIATED PLATING COMPANY**

### **THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT**

**ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA**

---

## **2. GROUNDWATER SAMPLING**

### **2.1 Groundwater Gauging and Sampling Procedures**

Well construction details for the four groundwater monitoring wells (MW-1 through MW-4) are included in **Table 1**. On August 31, 2006, the four monitoring wells were gauged and then purged and sampled. Following gauging, the wells were purged of at least three well volumes of water, allowed to recover, and then sampled using an electric submersible pump. Groundwater gauging and sampling field notes are provided in **Appendix A**.

### **2.2 Waste Disposal**

Waste generated as part of this investigation included purged groundwater and decontamination water used during sampling. Water was contained in one Department of Transportation (DOT) approved 55-gallon drum and temporarily stored at the Site prior to disposal. The drum of groundwater and decontamination water will be removed from the Site and transported to a suitable off-Site disposal facility by a licensed non-hazardous waste hauler.

### **2.3 Quality Assurance/Quality Control Sampling**

Field quality assurance/quality control (QA/QC) samples were collected on August 31, 2006, during groundwater sampling activities. An equipment rinsate blank was collected from the electric submersible pump by running distilled water through the pump into three 40-milliliter (ml) volatile organic analysis (VOA) vials. A field blank was collected by filling three 40 ml VOA vials with distilled water, leaving them exposed to ambient air during collection of the equipment blank, and then sealing them. A trip blank, consisting of two sealed 40 ml VOA vials with distilled water, was obtained from the laboratory and kept in the ice-chest throughout the day to evaluate if there was any introduction of contaminants during storage and transportation.

### **2.4 Laboratory Analyses**

Monitoring well groundwater samples and QA/QC samples were labeled, placed in an ice chest, and delivered under chain of custody to Sierra Analytical Inc. of Laguna Hills, California, within 24 hours of collection. The samples were analyzed for the following:



**WorleyParsons Komex**

resources & energy

**ASSOCIATED PLATING COMPANY**

**THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT**

**ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA**

---

- Total petroleum hydrocarbons (TPH), ranging from C7 to C36, in accordance with United States Environmental Protection Agency (USEPA) Method 8015B; and
- VOCs in accordance with USEPA Method 8260B.



## ASSOCIATED PLATING COMPANY

### THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## 3. GROUNDWATER RESULTS

### 3.1 Groundwater Results

Groundwater depths in the four monitoring wells ranged from 33.03 to 37.04 feet bgs (**Table 2**). During this sampling event, groundwater flow was generally towards the south-southeast at a gradient of 0.0009 ft/ft (**Figure 3**).

A sheen of light non-aqueous phase liquid (LNAPL) was observed on the water level probe in three of the wells, MW-1, MW-2, and MW-4. Groundwater collected from well MW-3 had a hydrocarbon odor, but no LNAPL was observed.

Groundwater gauging and laboratory analytical results are provided in **Tables 2 and 3**, respectively. The complete laboratory report, including chain of custody and laboratory QA/QC analyses, is provided in **Appendix B**.

Petroleum hydrocarbons were detected in groundwater in four monitoring wells, MW-1, MW-2, MW-3, and MW-4 (**Figure 6**); however, the TPH concentrations in every well were significantly less than the previously recorded April concentrations. The maximum concentration of TPH decreased from 65 milligrams per liter (mg/L) in April to 16 mg/L in well MW-1 (**Table 3**). The minimum TPH concentration also decreased, from 46 mg/L to 2.1 mg/L in well MW-3. The lateral distribution of TPH in groundwater for this sampling event is depicted in **Figure 4**.

Chlorinated solvents were detected in every well (**Figure 7**). Since April 2006, the concentration of trichloroethene (TCE) in upgradient well MW-1 have increased from 1.3 micrograms per liter (ug/L) to 21 ug/L. Vinyl chloride (VC) concentrations in groundwater collected from well MW-1 have decreased from 20 ug/L in April 2006 to 9.9 ug/L in August. Otherwise, chlorinated solvent concentrations in groundwater collected from wells MW-1 through MW-4 have remained fairly constant.

### 3.2 QA/QC Analytical Results

The results of QA/QC sample analyses are provided in **Table 4**. Groundwater laboratory QA/QC samples for TPH and chlorinated solvents were generally within acceptable levels. A review of the laboratory analytical report indicates that all internal laboratory QA/QC calibration checks, matrix spike, and matrix spike duplicate recoveries were within acceptable ranges (**Appendix B**). Chlorinated



**ASSOCIATED PLATING COMPANY**

**THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT**

**ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA**

---

solvents and TPH were not detected in the equipment rinsate blank, field blank or trip blank. However, chloroform was detected in the field blank at the reporting limit of 1.0 ug/L. Chloroform is a common lab contaminant and was not detected in any of the groundwater samples. In addition, isopropylbenzene was detected at 2.3 ug/L in the equipment blank. The isopropylbenzene concentration was considered insignificant since concentrations of isopropylbenzene detected in groundwater were 25 times greater than the concentration detected in the equipment blank. During this sampling event, the equipment blank was collected from the sampling pump. The pump was cleaned before sampling and between each well by pumping it with water from a three bucket decon rinse system: the first bucket contained distilled water and a non-phosphate detergent, and the second and third bucket contained tap water only. Groundwater results are deemed acceptable for the following reasons: standard decontamination practices were followed, chlorinated solvents are the primary contaminants of concern, and they were not detected in any of the sampling blanks.



ASSOCIATED PLATING COMPANY

THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## **4. CONCLUSIONS AND RECOMMENDATIONS**

### **4.1 Conclusions**

In August 2006, groundwater flow beneath the Site was towards the south-southeast at a gradient of 0.0009 ft/ft, and depth to groundwater ranged from 33.03 to 37.04 feet bgs (113.73 to 113.90 feet MSL).

In August 2006, the TPH concentrations detected in groundwater beneath the Site have generally decreased. TCE concentrations collected in groundwater from upgradient well MW-1 have generally increased and VC concentrations have decreased. Otherwise, chlorinated solvent concentrations detected in groundwater collected from wells MW-1 through MW-4 have remained fairly constant.

### **4.2 Recommendations**

In accordance with the DTSC's request, three additional quarterly groundwater sampling events should be conducted to analyze the contaminant trends.



# WorleyParsons Komex

resources & energy

ASSOCIATED PLATING COMPANY

THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## 5. CLOSURE

We trust that this report satisfies your current requirements and provides suitable documentation for your records. If you have any questions or require further details, please contact the undersigned at any time.

Respectfully Submitted:

**WorleyParsons Komex**

*Lee Paprocki For Lindsay Masters*

Lindsay Masters

Staff Geologist

Senior Review by

*Lee Paprocki*

Lee Paprocki, PG

Project Manager



ASSOCIATED PLATING COMPANY

THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## **6. REFERENCES**

DWR, 1961. Planned Utilization of the Ground Water Basins of the Coastal Plain of Los Angeles County. Bulletin No. 104. Appendix A Ground Water Geology. State of California Department of Water Resources Southern District. Dated June 1961.



# WorleyParsons Komex

resources & energy

**Table 1**  
**Monitoring Well Construction Details**  
**Associated Plating Company**

Well ID	Drilling Method	Installation Date	Well Casing Diameter (inches)	Latitude	Longitude	Wellhead Elevation (feet amsl)	Top of Casing Elevation (ft amsl)	Well Depth (feet bgs)	Well Depth (feet amsl)	Screen Slot Size (inches)	Screened Interval (feet bgs)	Screened Interval (feet amsl)
MW-1	HSA	4/5/2006	2	33.9527753	-118.05925	147.36	146.93	43.0	103.9	0.01	33 to 43	114.35 to 104.35
MW-2	HSA	4/5/2006	2	33.9524570	-118.05920	149.81	149.41	47.0	102.4	0.01	37 to 47	112.79 to 102.79
MW-3	HSA	4/6/2006	2	33.9523123	-118.05931	151.06	150.67	47.0	103.7	0.01	37 to 47	114.04 to 104.04
MW-4	HSA	4/6/2006	2	33.9522795	-118.05949	151.13	150.77	47.0	104.1	0.01	37 to 47	114.13 to 104.13

**Notes:**

- 1) amsl = above mean sea level
- 2) bgs = below ground surface
- 3) HSA = hollow stem auger



**Table 2**

**Groundwater Elevations**

**Associated Plating Company**

Well ID	Top of Casing Elevation (feet amsl)	Date	Depth to Groundwater (feet btoc)	Groundwater Elevation (feet amsl)
MW-1	146.93	04/12/06	34.33	112.60
		08/31/06	33.03	113.90
MW-2	149.41	04/12/06	36.87	112.54
		08/31/06	35.62	113.79
MW-3	150.67	04/12/06	38.20	112.47
		08/31/06	36.89	113.78
MW-4	150.77	04/12/06	38.36	112.41
		08/31/06	37.04	113.73

**Notes:**

- 1) bgs = Below ground surface
- 2) amsl = above mean sea level
- 3) btoc = below top of casing

**Table 3****TPH Carbon Range Groundwater Results  
Associated Plating Company**

Analyte	Units	MW-1	MW-1	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4
		4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06
<C8	mg/L	<0.10	<0.10	<1.0	<b>0.11</b>	<1.0	<b>0.051</b>	<1.0	<b>0.084</b>
C8-C9	mg/L	<0.10	<0.10	<1.0	<b>0.040</b>	<1.0	<b>0.014</b>	<1.0	<b>0.031</b>
C9-C10	mg/L	<0.10	<0.10	<b>1.1</b>	<b>0.073</b>	<1.0	<b>0.030</b>	<1.0	<b>0.056</b>
C10-C11	mg/L	<b>0.33</b>	<b>0.13</b>	<b>2.0</b>	<b>0.16</b>	<1.0	<b>0.076</b>	<1.0	<b>0.13</b>
C11-C12	mg/L	<b>0.66</b>	<b>0.20</b>	<b>2.8</b>	<b>0.14</b>	<1.0	<b>0.087</b>	<1.0	<b>0.17</b>
C12-C14	mg/L	<b>5.1</b>	<b>1.2</b>	<b>5.9</b>	<b>0.70</b>	<1.0	<b>0.26</b>	<b>1.8</b>	<b>0.40</b>
C14-C16	mg/L	<b>6.7</b>	<b>1.6</b>	<b>5.8</b>	<b>0.76</b>	<b>1.5</b>	<b>0.34</b>	<b>5.4</b>	<b>0.56</b>
C16-C18	mg/L	<b>6.8</b>	<b>1.6</b>	<b>5.0</b>	<b>0.63</b>	<1.0	<b>0.24</b>	<b>4.4</b>	<b>0.39</b>
C18-C20	mg/L	<b>4.1</b>	<b>0.94</b>	<b>3.6</b>	<b>0.54</b>	<b>1.1</b>	<b>0.19</b>	<b>4.0</b>	<b>0.27</b>
C20-C24	mg/L	<b>12</b>	<b>2.4</b>	<b>7.0</b>	<b>1.1</b>	<1.0	<b>0.29</b>	<b>5.2</b>	<b>0.48</b>
C24-C28	mg/L	<b>16</b>	<b>4.2</b>	<b>7.1</b>	<b>1.3</b>	<b>2.6</b>	<b>0.31</b>	<b>9.6</b>	<b>0.57</b>
C28-C32	mg/L	<b>12</b>	<b>3.9</b>	<b>10</b>	<b>1.1</b>	<b>35</b>	<b>0.23</b>	<b>27</b>	<b>0.46</b>
>C32	mg/L	<b>0.65</b>	<b>0.28</b>	<b>3.5</b>	<b>0.046</b>	<b>4.3</b>	<b>0.015</b>	<b>2.6</b>	<b>0.030</b>
Total C7-C36	mg/L	<b>65</b>	<b>16</b>	<b>54</b>	<b>6.7</b>	<b>46</b>	<b>2.1</b>	<b>60</b>	<b>3.6</b>

**Notes:**

- 1) TPH = total petroleum hydrocarbons (carbon range) analyzed using EPA Method 8015B
- 2) mg/L = milligrams per liter
- 3) <0.10 = compound not detected at or above the indicated laboratory reporting limit
- 4) Bold type indicates compound was detected.



**Table 4**  
**VOC Groundwater Results**  
**Associated Plating Company**

Analyte	Units	Location	MW-1	MW-1	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4
		Date	4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06
1,1,1,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L		<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
1,2,4-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	23	3.4	<1.0	<1.0
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromoethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	6.3	1.2	<1.0	<1.0
1,3-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Phenylbutane	ug/L		<1.0	<1.0	16	12	16	11	16	13
4-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	ug/L		1.3	<1.0	2.3	3.1	2.0	3.7	3.6	7.6
Bromobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Butylbenzene, n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
CFC-12	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Chlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Chloroform	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	ug/L		5.5	8.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cymene	ug/L		3.2	1.8	4.1	3.2	1.4	<1.0	4.1	<1.0
Dibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl Ether (DIPE)	ug/L		--	<1.0	--	<1.0	--	<1.0	--	<1.0
Ethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	21	3.1	1.5	<1.0
Ethyl-tert-butyl Ether (ETBE)	ug/L		--	<1.0	--	<1.0	--	<1.0	--	<1.0
Hexachloro-1,3-Butadiene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	ug/L		1.9	<1.0	75	57	83	74	86	87
Methylene Chloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-Butyl Ether (MTBE)	ug/L		8.9	2.0	3.5	3.0	1.9	2.2	3.0	2.8
Naphthalene	ug/L		1.6	<1.0	16	12	46	8.7	4.5	1.9
Propylbenzene, n-	ug/L		<1.0	<1.0	9.4	3.5	22	5.3	10	8.9
Styrene (Monomer)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-amyl-methyl Ether (TAME)	ug/L		--	<1.0	--	<1.0	--	<1.0	--	<1.0
tert-butyl Alcohol (TBA)	ug/L		--	<5.0	--	<5.0	--	<5.0	--	<5.0
tert-Butylbenzene	ug/L		1.6	<1.0	1.9	1.7	<1.0	3.4	<1.0	1.4
Tetrachloroethene (PCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.7	1.2
Toluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L		5.2	3.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tribromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	ug/L		1.3	21	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride (VC)	ug/L		20	9.9	50	47	53	58	57	54
Xylene, O-	ug/L		<1.0	<1.0	<1.0	<1.0	2.6	<1.0	<1.0	<1.0
Xylene, P-, M-	ug/L		<1.0	<1.0	<1.0	<1.0	28	3.1	<1.0	<1.0

**Notes:**

- 1) VOC = volatile organic compounds analyzed using EPA Method 8260B
- 2) ug/L = micrograms per liter
- 3) <1.0 = compound not detected at or above the indicated laboratory reporting limit
- 4) -- = not analyzed
- 5) Bold type indicates compound was detected.



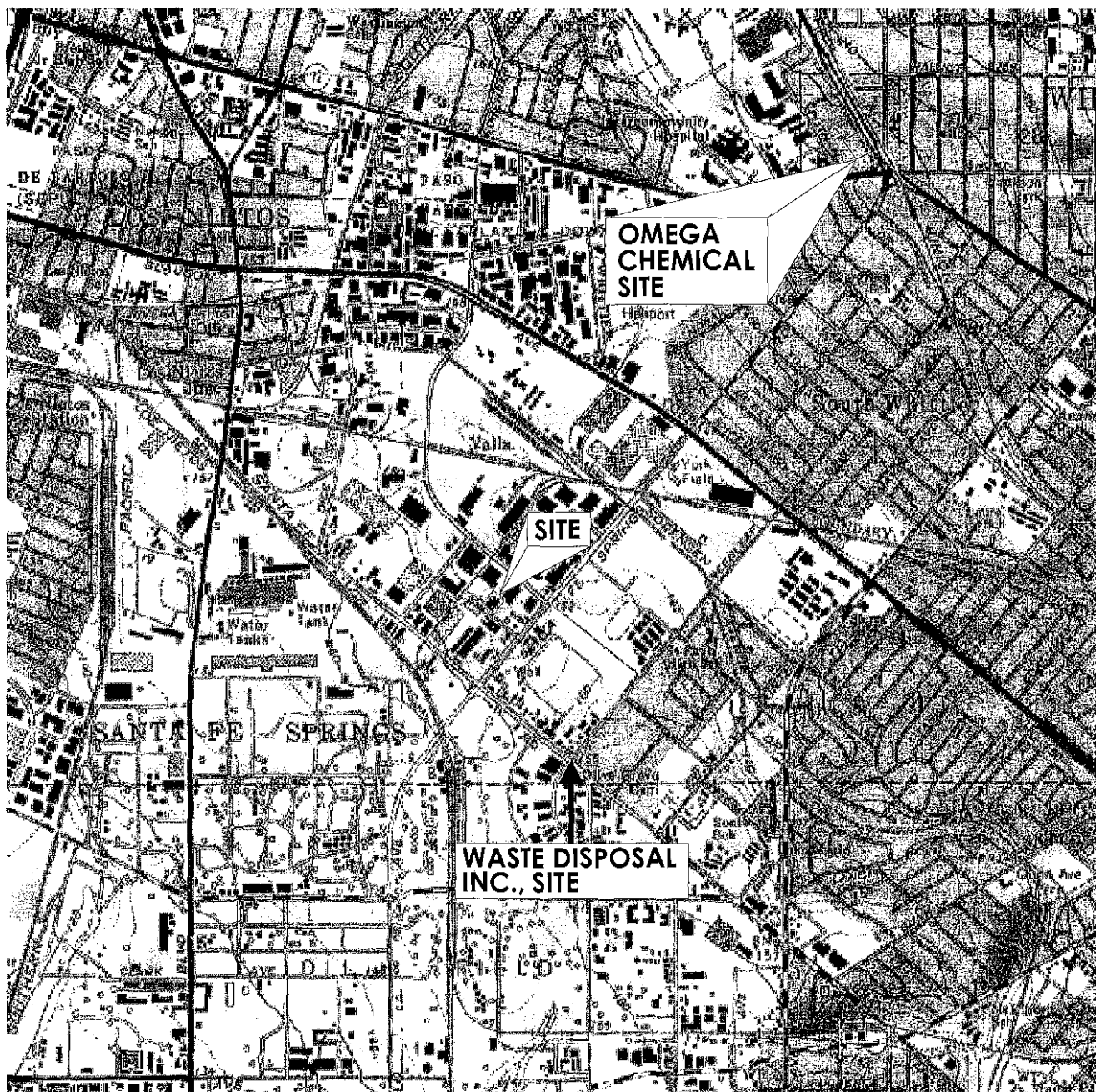
Table 5

Field Quality Assurance/Quality Control Sample Results  
Associated Plating Company

Analyte	Units	Sample Type	Equipment Blank		Field Blank		Trip Blank	
		Sample Date	4/12/06	8/31/06	4/12/06	8/31/06	4/12/06	8/31/06
		Sample ID	EB-41206	EB083106	FB-41206	FB083106	TB-41206	TB083106
TPH - Carbon Range								
>C32	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
Total C7-C36	mg/L		<0.050	<0.050	<0.050	<0.050	--	--
C28-C32	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C24-C28	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C20-C24	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C18-C20	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C16-C18	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C12-C14	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C11-C12	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C10-C11	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C9-C10	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C8-C9	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
C14-C16	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
<C8	mg/L		<0.010	<0.010	<0.010	<0.010	--	--
VOCs								
2-Phenylbutane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromoethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2,2-Dichloropropane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dibromo-3-Chloropropane (DBCP)	ug/L		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trimethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
1,2,3-Trichlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloropropylene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene (PCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	ug/L		<1.0	2.3	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl-tert-Butyl Ether (MTBE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Propylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene (Monomer)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-amyl-methyl Ether (TAME)	ug/L		--	<1.0	--	<1.0	--	<1.0
4-Chlorotoluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tribromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene (TCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride (VC)	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Xylene, O-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
tert-butyl Alcohol (TBA)	ug/L		--	<5.0	--	<5.0	--	<5.0
Chloroethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Bromodichloromethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Butylbenzene,n-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
CFC-11	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
CFC-12	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
Chlorobenzene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloro-1,3-Butadiene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethyl-tert-butyl Ether (ETBE)	ug/L		--	<1.0	--	<1.0	--	<1.0
Chloroform	ug/L		<1.0	<1.0	<1.0	1.0	<1.0	<1.0
Chloromethane	ug/L		<5.0	<1.0	<5.0	<1.0	<5.0	<1.0
cis-1,2-Dichloroethene (cis 1,2-DCE)	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cymene	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diisopropyl Ether (DIPE)	ug/L		--	<1.0	--	<1.0	--	<1.0
Xylene, P-, M-	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobromomethane	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

- 1) TPH = total petroleum hydrocarbons (carbon range) analyzed using EPA Method 8015B
- 2) VOCs = volatile organic compounds analyzed using EPA Method 8260B
- 3) mg/L = milligrams per liter
- 4) ug/L = micrograms per liter
- 5) <1.0 = compound not detected at or above the indicated laboratory reporting limit
- 6) Bold type indicates compound was detected.
- 7) -- = not analyzed



Source: United States Geological Survey, "South Whittier,"  
7.5 Minute Quadrangle, 1998



0 2,000

Approximate Scale in feet

**ASSOCIATED PLATING COMPANY**  
9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

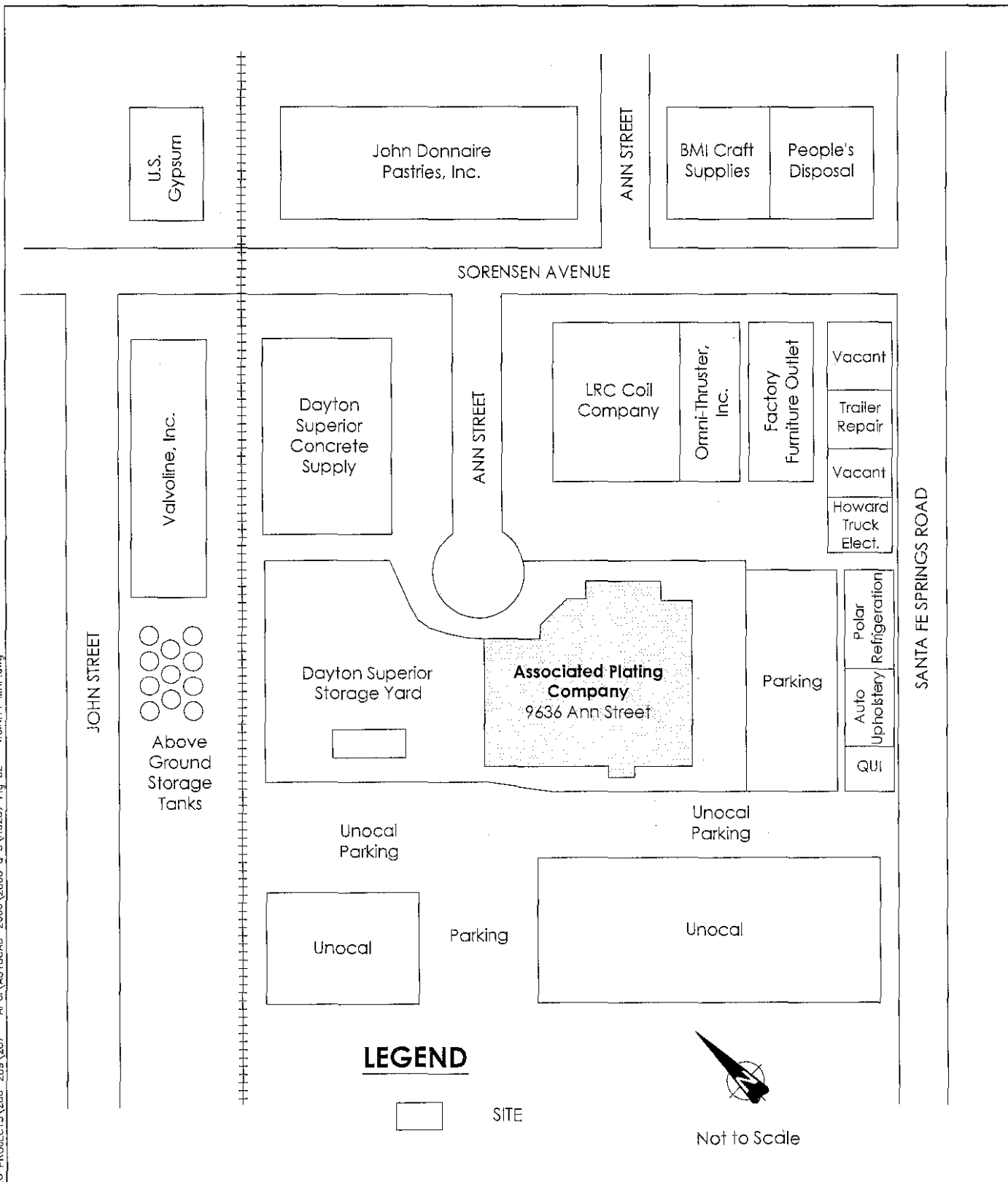


**WorleyParsons Komex**  
resources & energy

## SITE LOCATION MAP

DRAWN BY: JH	EDITED BY: JH	DATE: 10/2006
APPROVED: LP		1

File Name: X:\H20 PROJECTS\280-289\287 - APC\AUTOCAD-2006\2006 Q 3\H0287 Fig 02 - VICINITY MAP.dwg  
 Date: 10/11/2006



**ASSOCIATED PLATING COMPANY**  
 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

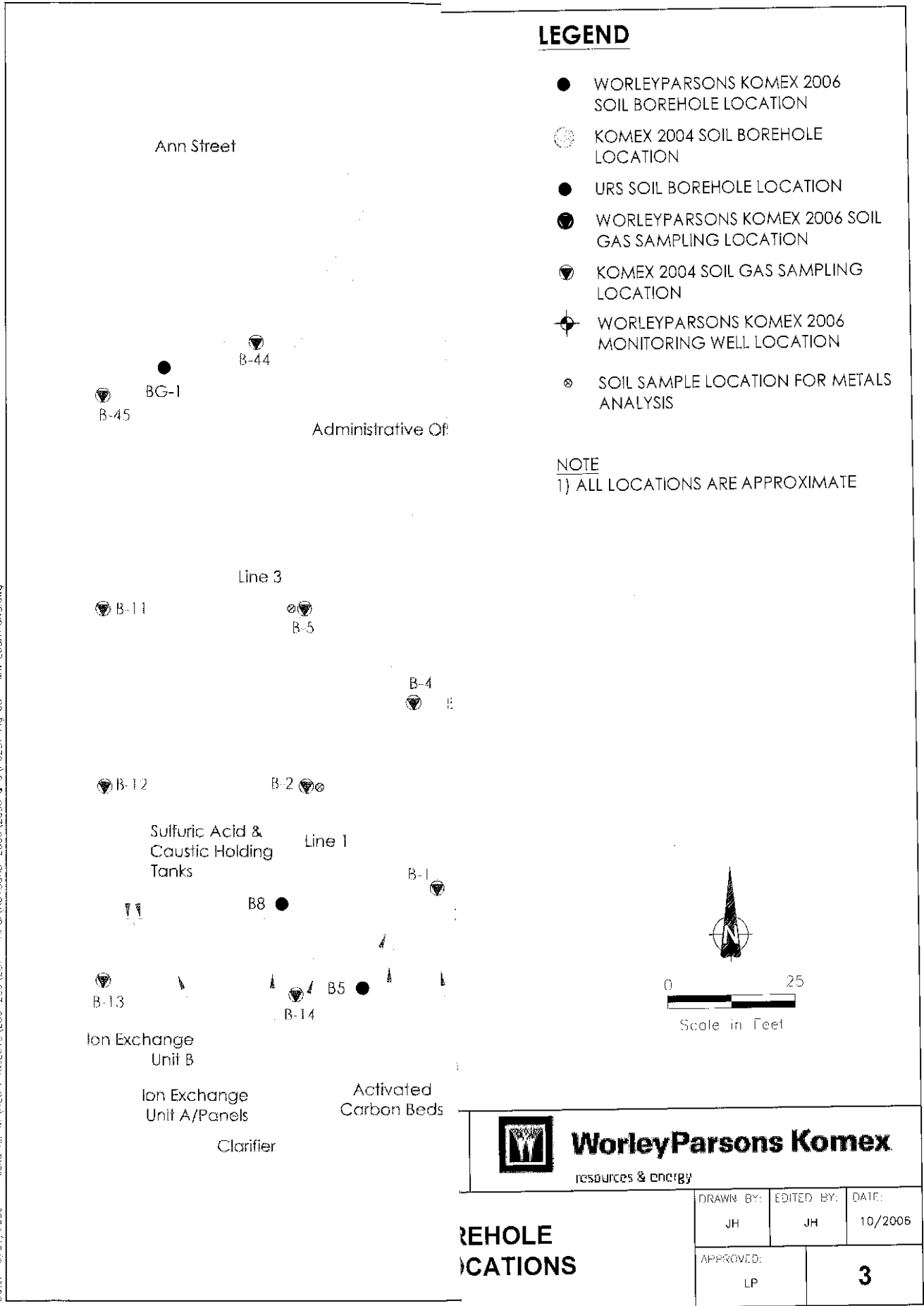


**WorleyParsons Komex**  
 resources & energy

**SITE VICINITY MAP**

DRAWN BY:	EDITED BY:	DATE:
JH	JH	10/2006
APPROVED:		2
LP		

File: 10/09/2006 - APD\AUTOCAD-2006\2006 Q 3\1-2287 Fig 03 - MW LOCATIONS.dwg



SW

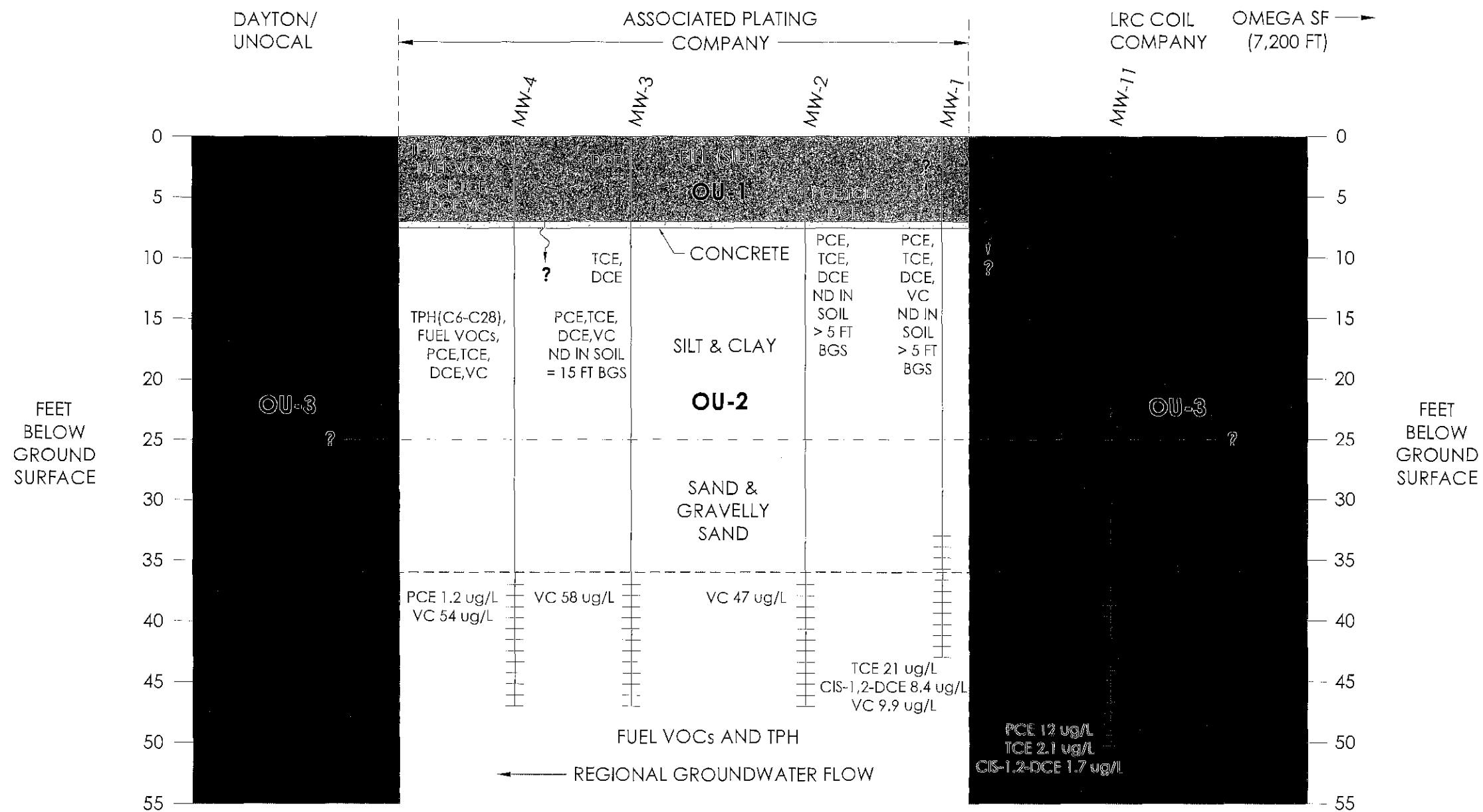
NE

## LEGEND

- OU-1 (OPERABLE UNIT 1)  
 OU-2 (OPERABLE UNIT 2)  
 OU-3 (OPERABLE UNIT 3)  
 POTENTIAL MIGRATION PATHWAYS  
 WATER TABLE SURFACE  
 LITHOLOGIC CONTACT  
 GROUNDWATER MONITORING WELL SCREENED INTERVAL

## NOTES

- 1) ALL LOCATIONS ARE APPROXIMATE  
 2) LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID  
 3) TPH = TOTAL PETROLEUM HYDROCARBONS  
 4) VOCs = VOLATILE ORGANIC COMPOUNDS  
 5) PCE = TETRACHLOROETHENE  
 6) TCE = TRICHLOROETHENE  
 7) DCE = DICHLOROETHENE  
 8) VC = VINYL CHLORIDE  
 9) ND = COMPOUND NOT DETECTED  
 10) FT BGS = FEET BELOW GROUND SURFACE  
 11) ug/L = MICROGRAMS PER LITER



**ASSOCIATED PLATING COMPANY**  
9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

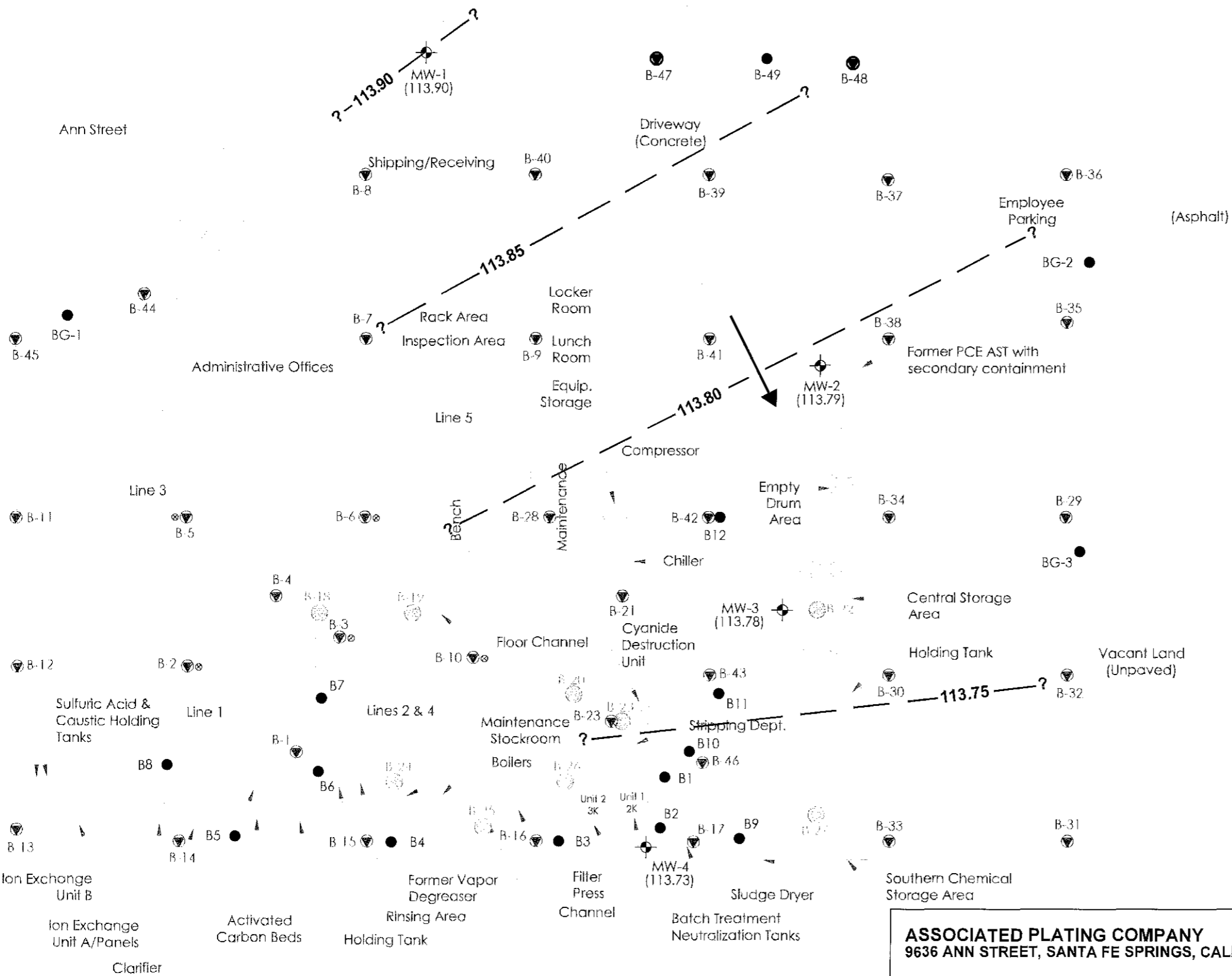


**WorleyParsons Komex**  
resources & energy

### SITE CONCEPTUAL MODEL AND PROPOSED OPERABLE UNITS

DRAWN BY:	EDITED BY:	DATE:
CT	JH	10/2006
APPROVED:	4	
LP		

File Name: X:\H2O PROJECTS\2801-268\287 - APC\AUTOCAD-2006\2006-2\3\H0287 Fla 05 - POTENTIO.dwg  
Date: 10/11/2006



## LEGEND

- WORLEYPARSONS KOMEX 2006 SOIL BOREHOLE LOCATION
- KOMEX 2004 SOIL BOREHOLE LOCATION
- URS SOIL BOREHOLE LOCATION
- WORLEYPARSONS KOMEX 2006 SOIL GAS SAMPLING LOCATION
- KOMEX 2004 SOIL GAS SAMPLING LOCATION
- WORLEYPARSONS KOMEX 2006 MONITORING WELL LOCATION
- SOIL SAMPLE LOCATION FOR METALS ANALYSIS
- (113.90) GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL)
- 113.85 GROUNDWATER POTENTIOMETRIC SURFACE CONTOUR (FEET MSL)
- GROUNDWATER FLOW DIRECTION

## NOTE

1) ALL LOCATIONS ARE APPROXIMATE

**ASSOCIATED PLATING COMPANY**  
9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

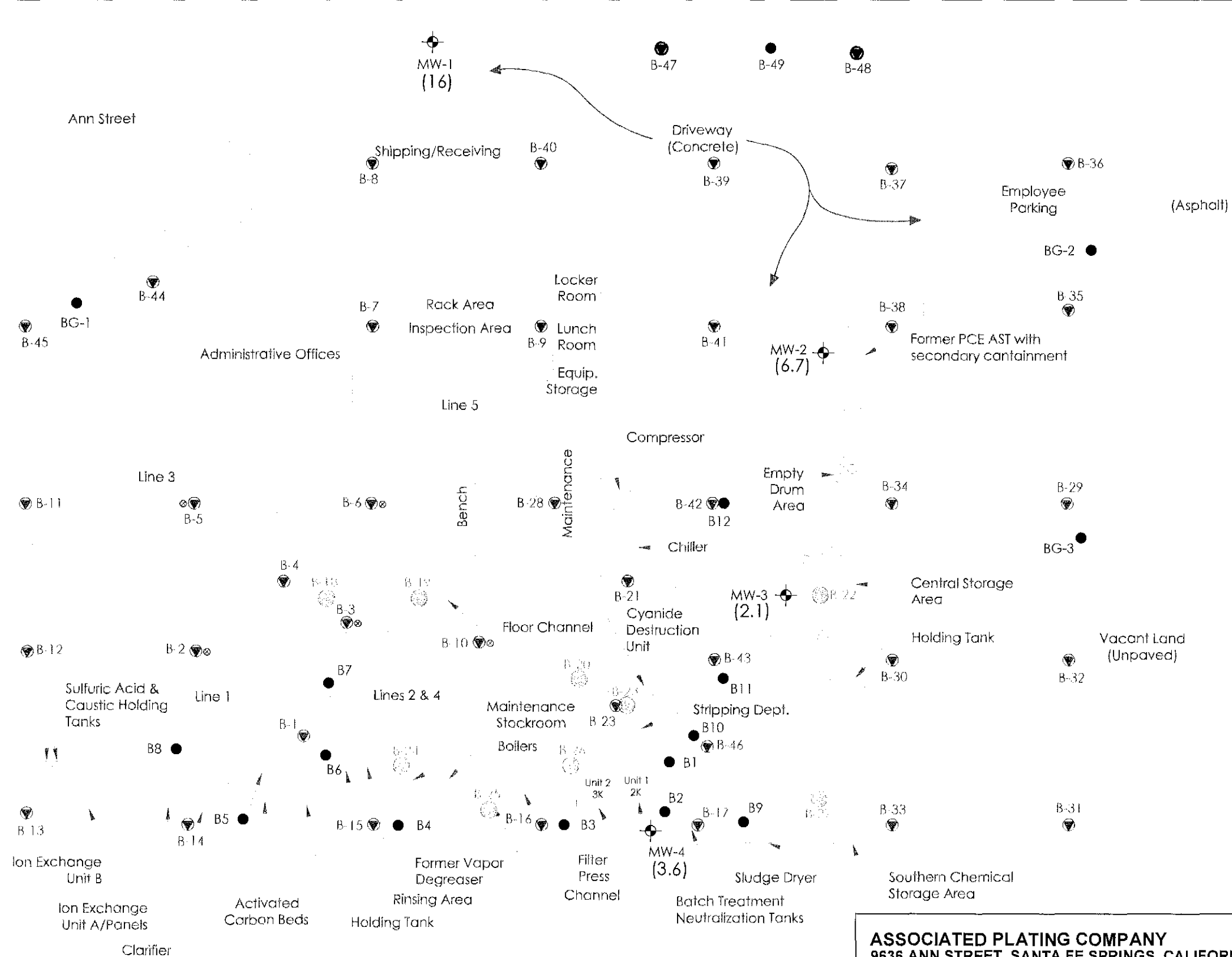


**WorleyParsons Komex**  
resources & energy

## POTENTIOMETRIC SURFACE CONTOUR MAP (AUGUST 31, 2006)

DRAWN BY:	EDITED BY:	DATE:
JH	JH	10/2006
APPROVED:	5	
LP		

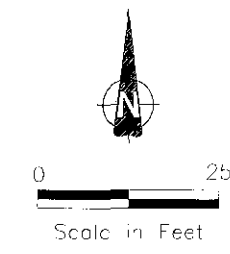
Date: 10/09/2005 File: X:\420 PROJECTS\280-259\287 - APON\AUTOCAD-2006\2006 Q 3\4287 Fig 06 - TPH IN GWA.dwg




- ### LEGEND
- WORLEYPARSONS KOMEX 2006 SOIL BOREHOLE LOCATION
  - KOMEX 2004 SOIL BOREHOLE LOCATION
  - URS SOIL BOREHOLE LOCATION
  - WORLEYPARSONS KOMEX 2006 SOIL GAS SAMPLING LOCATION
  - ▼ KOMEX 2004 SOIL GAS SAMPLING LOCATION
  - ⊕ WORLEYPARSONS KOMEX 2006 MONITORING WELL LOCATION
  - ⊗ SOIL SAMPLE LOCATION FOR METALS ANALYSIS
- (3.6) TPH CONCENTRATION IN MILLIGRAMS PER LITER (mg/L)

### NOTES

1) ALL LOCATIONS ARE APPROXIMATE  
2) TPH = TOTAL PETROLEUM HYDROCARBONS



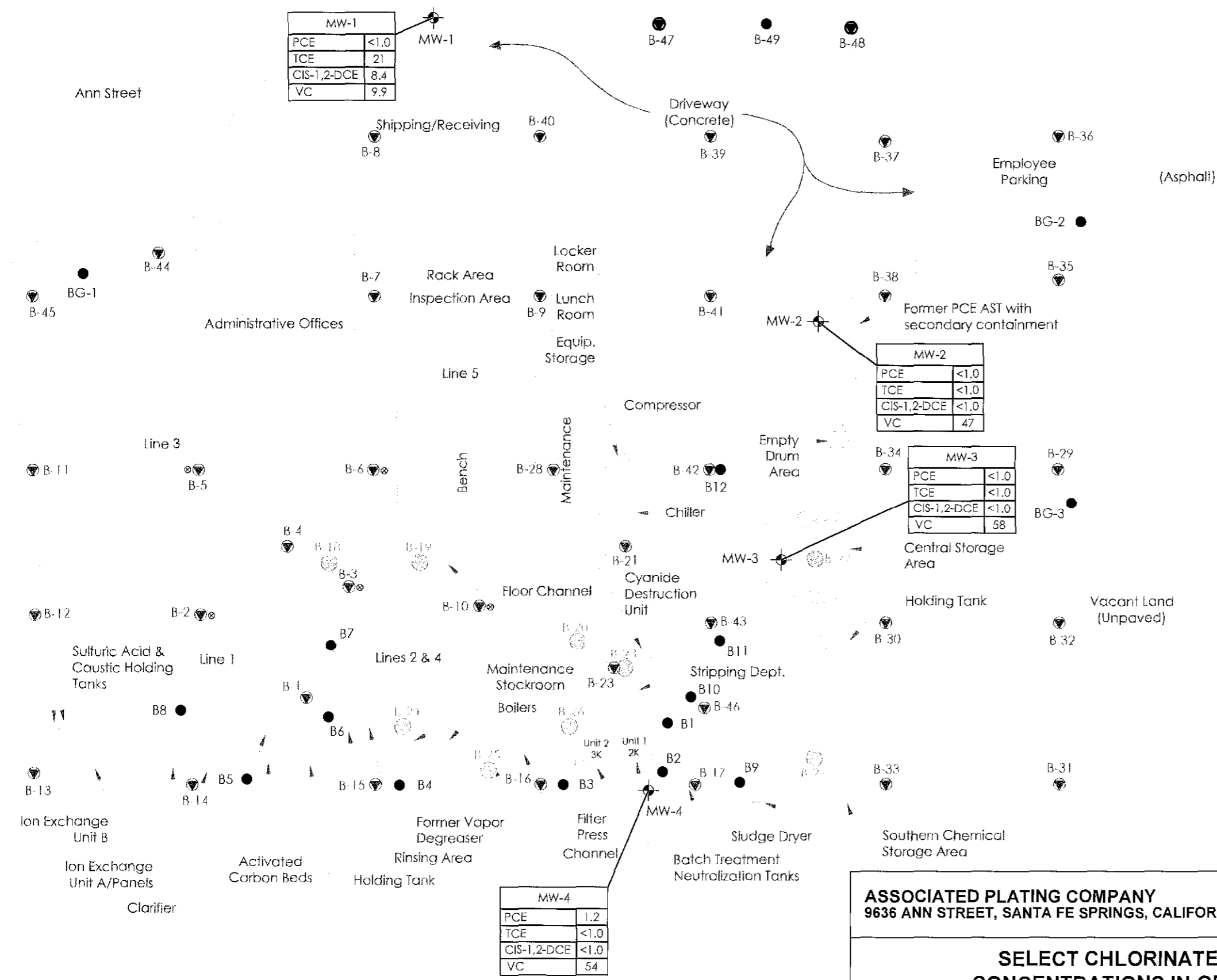
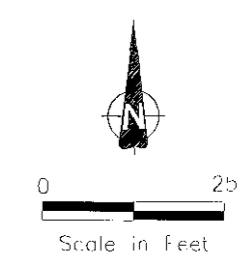
<b>ASSOCIATED PLATING COMPANY</b> 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA		 <b>WorleyParsons Komex</b> resources & energy	
<b>TPH CONCENTRATIONS IN GROUNDWATER</b> <b>(AUGUST 2006)</b>		DRAWN BY: JH	EDITED BY: JH
		DATE: 10/2006	
APPROVED: LP		<b>6</b>	

File name: X:\P20-9601015\380-289\287 - APC\AUTOCAD-2006\2006 Q 3\0287 Fig 07 - V02a IN CH.dwg  
Date: 10/03/2006

LEGEND

- WORLEYPARSONS KOMEX 2006 SOIL BOREHOLE LOCATION
- KOMEX 2004 SOIL BOREHOLE LOCATION
- URS SOIL BOREHOLE LOCATION
- WORLEYPARSONS KOMEX 2006 SOIL GAS SAMPLING LOCATION
- KOMEX 2004 SOIL GAS SAMPLING LOCATION
- ⊕ WORLEYPARSONS KOMEX 2006 MONITORING WELL LOCATION
- ⊗ SOIL SAMPLE LOCATION FOR METALS ANALYSIS
- 1.2 CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
- <1.0 COMPOUND WAS NOT DETECTED AT OR ABOVE THE SPECIFIED LABORATORY REPORTING LIMIT (ug/L)

NOTES  
1) ALL LOCATIONS ARE APPROXIMATE  
2) PCE = TETRACHLOROETHENE  
3) TCE = TRICHLOROETHENE  
4) CIS-1,2-DCE = CIS-1,2-DICHLOROETHENE  
5) VC = VINYL CHLORIDE



**ASSOCIATED PLATING COMPANY**  
9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

**WorleyParsons Komex**  
resources & energy

**SELECT CHLORINATED SOLVENT  
CONCENTRATIONS IN GROUNDWATER  
(AUGUST 2006)**

DRAWN BY: JH	EDITED BY: JH	DATE: 10/2006
APPROVED: LP		<b>7</b>



**WorleyParsons Komex**

resources & energy

ASSOCIATED PLATING COMPANY

THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## **Appendix A   Monitoring Well Sampling Forms**



# WorleyParsons Komex

resources & energy

5455 GARDEN GROVE BLVD., SECOND FLOOR

WESTMINSTER, CA 92683-8201, USA

TEL: 714.379.1157 FAX: 714.379.1160

## MONITORING WELL SAMPLING FORM

Project Name: APC	Date: 8/31/06
Project No.: H287D020	Time: 9:00
Employee Name: LP + RH	Page 1 of 1

WELL CONSTRUCTION DETAILS		WELL NO: MW-1
DATES	Casing Type: PVC	Screen Type:
Constructed:	Diameter: 2"	Diameter:
Developed:	Length:	Length:
Last Sampled:	T.D.: 43	Slot Size:

### LOCATION SKETCH:

See site map

WELL CONDITION: good		Water Depth: 33.03
G.S. Elev.:	Water Depth:	F.P. Thickness:
T.C. Elev.:	Water Column: 9.97	Water Odor:
W.L. Elev.:	Casing Volume: 1.6	Turbidity:
Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft		

53.71

a few drops of free product on the probe but not of measurable quantity

Well Purging Method: monsoon pump	Purge Vol.: 4.8
-----------------------------------	-----------------

WELL PURGING AND RECOVERY ANALYSIS: <i>OL mS/cm ntu</i>											
Time	W.L.	Purge Rate	Vol.	Temp.	pH	Conduct.	Turbid.	DO.	ORP	Sample No.	REMARKS
9:06	33.02	2.1 gal/min	1	21.7	6.02	2.99	999	X			
9:07	33.25		1.2	22.9	6.52	1.94	999				
9:08			2	22.9	6.59	1.93	999				
9:10	33.05		3	22.9	6.48	1.91	999				
9:15	33.05		4	22.8	6.50	1.90	999				
9:17	33.05	✓	4.8					X			

w/pump

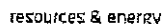
### SAMPLING INFORMATION:

Sample No.	Time	Sampling Method	Container	Analysis Required
MW1083106	9:20	pump	WAS-1 L Amber	VOCS + TPH extended range

### ADDITIONAL INFORMATION:


43.00  
33.03  
= 9.97  
1.16  
154.82  
99.70  
154.50

1.60  
2.3  
4.60



TEL: 714.379.1157 FAX: 714.379.1160

Project Name:	APC	Date:	8/31/66
Project No.:	H02870020	Time:	9:35
Employee Name:	JP + RH	Page	1 of 1

WELL CONSTRUCTION DETAILS		WELL NO: <i>MW-2</i>
DATES	Casing Type: <i>PVC</i>	Screen Type:
Constructed:	Diameter: <i>2"</i>	Diameter:
Developed:	Length:	Length:
Last Sampled:	T.D.: <i>47</i>	Slot Size:

WELL CONDITION: <i>good</i>		Water Depth: <i>35.62</i>	
G.S. Elev.:	Water Depth: <i>35.62</i>	F.P. Thickness: <i>2</i>	
T.C. Elev.:	Water Column: <i>11.38</i>	Water Odor:	
W.L. Elev:	Casing Volume: <i>82</i>	Turbidity:	
Note: 2" - 0.16 g/ft; 4" - 0.65 g/ft; and 6" - 1.5 g/ft			

See site map

bulls ~~car~~ lids are slightly rusty

→ A few drops of free product on the probe but not measurable

Well Purging Method: Hand Pump Purge Vol.: 225 gal

[illegible]

w/pump  
Prapor

Sample No.	Time	Sampling Method	Container	Analysis Required
MW 2083106	9:49	Perisan pump	veas + 16/100ml	VOCs + TPH extended range


$$\begin{array}{r} 4.700 \\ - 3.502 \\ \hline 1.198 \end{array}$$

$$\begin{array}{r} 1.200 \\ - 3.500 \\ \hline -2.300 \end{array}$$

5455 GARDEN GROVE BLVD., SECOND FLOOR

WESTMINSTER, CA 92683-8201, USA

TEL: 714.379.1157 FAX: 714.379.1160

## MONITORING WELL SAMPLING FORM

Project Name: APC	Date: 8/29/06
Project No.: H0287D030	Time: 10:11
Employee Name: LP:RTH	Page 1 of 1

WELL CONSTRUCTION DETAILS		WELL NO: MW-3
DATES	Casing Type: PVC	Screen Type:
Constructed:	Diameter: 2"	Diameter:
Developed:	Length:	Length:
Last Sampled:	T.D.: 417	Slot Size:

WELL CONDITION: <i>good</i>		Water Depth: <i>36.89</i>	
G.S. Elev.:	Water Depth:	F.P. Thickness:	<i>10.12</i>
T.C. Elev.:	Water Column: <i>10.11</i>	Water Odor:	<i>hydrocarbon</i>
W.L. Elev.:	Casing Volume: <i>1.62</i>	Turbidity:	
Note: 2" = 0.16 g/ft; 4" = 0.63 g/ft; and 6" = 1.5 g/ft			

Well Purging Method: Pump Purge Vol.: 1-5 gal

LOCATION SKETCH:

See site map

→ not on the probe

hydration color

Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft

[illegible]

Wfamp  
pmpat

**SAMPLING INFORMATION:**

Sample No.	Time	Sampling Method	Container	Analysis Required
MV3082906	10:21	permeation pump	VOCs + 14 Ambr	VOCs + TPH extended range

**ADDITIONAL INFORMATION:**

[illegible]
$$\begin{array}{r} 47.00 \\ 36.89 \\ \hline 10.11 \\ \text{y.16} \\ \hline 6006 \\ 10110 \\ \hline 16176 \end{array}$$

5455 GARDEN GROVE BLVD., SECOND FLOOR

WESTMINSTER, CA 92683-8201, USA

TEL.: 714.379.1157 FAX: 714.379.1160

# MONITORING WELL SAMPLING FORM

Project Name: APC	Date: 8/24/06
Project No.: H02870020	Time: 11:30
Employee Name: PIRH	Page 1 of 1

WELL CONSTRUCTION DETAILS		WELL NO: <i>MW-1</i>
DATES	Casing Type: <i>PVC</i>	Screen Type:
Constructed:	Diameter: <i>2"</i>	Diameter:
Developed:	Length:	Length:
Last Sampled:	T.D.: <i>47</i>	Slot Size:

LOCATION SKETCH:

See site map

WELL CONDITION:		Water Depth: 37.04	
G.S. Elev.:	Water Depth:	F.P. Thickness:	not meas.
T.C. Elev.:	Water Column: 9.96	Water Odor:	hydrocarbon
W.L. Elev.:	Casing Volume: 1.500	Turbidity:	
Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft			

Note: 2" = 0.16 g/ft; 4" = 0.65 g/ft; and 6" = 1.5 g/ft

Well Purging Method: *Procedural Pump* Purge Vol.: *4.8*

### WELL PURGING AND RECOVERY ANALYSIS:

[illegible]

**SAMPLING INFORMATION:**

Sample No.	Time	Sampling Method	Container	Analysis Required
WV4083406	10:42	manometer pump	vials 1/2 liter	VOCs + TPH extended range
FB1083106	10:45	grab	" "	" "
FB1083106	10:50	pump	" "	" "
TB083106	—	—	vials	VOCs

**ADDITIONAL INFORMATION:**

[illegible]
$$\begin{array}{r} 47.60 \\ 37.04 \\ \hline 59.96 \\ 1.16 \\ \hline 59.86 \\ 99.68 \\ \hline 159.46 \end{array}$$

**SIERRA ANALYTICAL**

**TEL: 949•348•9389**

**FAX: 949•348•9115**

26052 Merit Circle • Suite 105 • Laguna Hills, CA • 92653

### CHAIN OF CUSTODY RECORD

Date: 8/31/06

Page 1 of 1

**Lab Project No.:**

Client: Worky Parsons Kopyx  
Client Address: 5455 Garden Grove Blvd  
Westminster, CA 92683

**Client Project ID:**

HO267 DO 20

Client Tel. No.: 714-379-1157

Client Fax. No.: 714-379-1160

Client Proj. Mgr.: *Lee P. Pappalardo*

Turn Around ☐ Immediate ☐ 24 Hour  
Time Requested ☐ 48 Hour ☐ 72 Hour  
☐ 4 Day ☐ 5 Day  
☒ Normal ☐ Mobile

### Analysis Requested

**Geotracker EDD Info:**

Client LOGCODE

Site Global ID

Field Point Names/  
Comments

Client Sample ID.	Date	Time	Matrix	Preservative	Container Type	No. of Containers	Field Point Names/Comments
MW1083106	5/3/06	9:20	GW	HCL + BURE	12.8605 F 4091WA	3	
MW2083106		9:49	↓	↓	↓	↓	
MW3083106		10:21	↓	↓	↓	↓	
MW4083106		10:42	↓	↓	↓	↓	
ER083106		10:50	W	↓	↓	↓	
FB083106		10:45	W	↓	↓	↓	
TR083106		—	W	HCL	2.0005	2	

1  
Sampler Signature: *Lee Papadakis*

**Shipped Via:**

Printed Name: Lee Padoch

(Carrier/Waybill No.)

2 Relinquished By *Raymond W.*

DATE \_\_\_\_\_

Received By \_\_\_\_\_

Company: Kelly Bros Corp

Time: 4:40

Company:

**3** Relinquished By:

Date \_\_\_\_\_

Received By \_\_\_\_\_

Company:

Date: \_\_\_\_\_

Received By \_\_\_\_\_

Company:	Time:	Company:
Special Instructions: bill to RPK247, send EDF to Sascha Hermann Please email results to lindsay.mastriis@workyparsons.com + lrc.papadachi@workyparsons.com		

**Total Number of Containers Submitted to Laboratory**

### Sample Disposal:

 [Return to Client](#)

☒ Lab Disposal\*☐ Archive mos.☐ Other

Total Number of Containers Received  
by Laboratory



**WorleyParsons Komex**

resources & energy

ASSOCIATED PLATING COMPANY

THIRD QUARTER 2006 GROUNDWATER MONITORING REPORT

ASSOCIATED PLATING COMPANY, 9636 ANN STREET, SANTA FE SPRINGS, CALIFORNIA

---

## **Appendix B   Laboratory Analytical Report**



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1083106	0609011-01	Liquid	08/31/06 09:20	09/01/06 11:40
MW2083106	0609011-02	Liquid	08/31/06 09:49	09/01/06 11:40
MW3083106	0609011-03	Liquid	08/31/06 10:21	09/01/06 11:40
MW4083106	0609011-04	Liquid	08/31/06 10:42	09/01/06 11:40
EB083106	0609011-05	Liquid	08/31/06 10:50	09/01/06 11:40
FB083106	0609011-06	Liquid	08/31/06 10:45	09/01/06 11:40
TB083106	0609011-07	Liquid	08/31/06 00:00	09/01/06 11:40

#### CASE NARRATIVE

SAMPLE RECEIPT: Samples were received intact, at 4 °C, and accompanied by chain of custody documentation.  
PRESERVATION: Samples requiring preservation were verified prior to sample preparation and analysis.  
HOLDING TIMES: All holding times were met, unless otherwise noted in the report with data qualifiers.  
QA/QC CRITERIA: All quality objective criteria were met, except as noted in the report with data qualifiers.

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW1083106 (0609011-01) Liquid Sampled: 08/31/06 09:20 Received: 09/01/06 11:40									
HC < C8	ND	0.10	mg/L	10	B610838	09/07/06	09/08/06	EPA 8015B	
C8 <= HC < C9	ND	0.10	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.10	"	"	"	"	"	"	
C10 <= HC < C11	0.13	0.10	"	"	"	"	"	"	
C11 <= HC < C12	0.20	0.10	"	"	"	"	"	"	
C12 <= HC < C14	1.2	0.10	"	"	"	"	"	"	
C14 <= HC < C16	1.6	0.10	"	"	"	"	"	"	
C16 <= HC < C18	1.6	0.10	"	"	"	"	"	"	
C18 <= HC < C20	0.94	0.10	"	"	"	"	"	"	
C20 <= HC < C24	2.4	0.10	"	"	"	"	"	"	
C24 <= HC < C28	4.2	0.10	"	"	"	"	"	"	
C28 <= HC < C32	3.9	0.10	"	"	"	"	"	"	
HC >= C32	0.28	0.10	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	16	0.50	"	"	"	"	"	"	

Surrogate: o-Terphenyl % 60-175 " " " " S-03

MW2083106 (0609011-02) Liquid Sampled: 08/31/06 09:49 Received: 09/01/06 11:40

HC < C8	0.11	0.010	mg/L	1	B610838	09/07/06	09/07/06	EPA 8015B	
C8 <= HC < C9	0.040	0.010	"	"	"	"	"	"	
C9 <= HC < C10	0.073	0.010	"	"	"	"	"	"	
C10 <= HC < C11	0.16	0.010	"	"	"	"	"	"	
C11 <= HC < C12	0.14	0.010	"	"	"	"	"	"	
C12 <= HC < C14	0.70	0.010	"	"	"	"	"	"	
C14 <= HC < C16	0.76	0.010	"	"	"	"	"	"	
C16 <= HC < C18	0.63	0.010	"	"	"	"	"	"	
C18 <= HC < C20	0.54	0.010	"	"	"	"	"	"	
C20 <= HC < C24	1.1	0.010	"	"	"	"	"	"	
C24 <= HC < C28	1.3	0.010	"	"	"	"	"	"	
C28 <= HC < C32	1.1	0.010	"	"	"	"	"	"	
HC >= C32	0.046	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	6.7	0.050	"	"	"	"	"	"	

Surrogate: o-Terphenyl 142 % 60-175 " " " "

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW3083106 (0609011-03) Liquid</b> Sampled: 08/31/06 10:21    Received: 09/01/06 11:40									
HC < C8	0.051	0.010	mg/L	1	B610838	09/07/06	09/07/06	EPA 8015B	
C8 <= HC < C9	0.014	0.010	"	"	"	"	"	"	
C9 <= HC < C10	0.030	0.010	"	"	"	"	"	"	
C10 <= HC < C11	0.076	0.010	"	"	"	"	"	"	
C11 <= HC < C12	0.087	0.010	"	"	"	"	"	"	
C12 <= HC < C14	0.26	0.010	"	"	"	"	"	"	
C14 <= HC < C16	0.34	0.010	"	"	"	"	"	"	
C16 <= HC < C18	0.24	0.010	"	"	"	"	"	"	
C18 <= HC < C20	0.19	0.010	"	"	"	"	"	"	
C20 <= HC < C24	0.29	0.010	"	"	"	"	"	"	
C24 <= HC < C28	0.31	0.010	"	"	"	"	"	"	
C28 <= HC < C32	0.23	0.010	"	"	"	"	"	"	
HC >= C32	0.015	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	2.1	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		102 %	60-175		"	"	"	"	
<b>MW4083106 (0609011-04) Liquid</b> Sampled: 08/31/06 10:42    Received: 09/01/06 11:40									
HC < C8	0.084	0.010	mg/L	1	B610838	09/07/06	09/08/06	EPA 8015B	
C8 <= HC < C9	0.031	0.010	"	"	"	"	"	"	
C9 <= HC < C10	0.056	0.010	"	"	"	"	"	"	
C10 <= HC < C11	0.13	0.010	"	"	"	"	"	"	
C11 <= HC < C12	0.17	0.010	"	"	"	"	"	"	
C12 <= HC < C14	0.40	0.010	"	"	"	"	"	"	
C14 <= HC < C16	0.56	0.010	"	"	"	"	"	"	
C16 <= HC < C18	0.39	0.010	"	"	"	"	"	"	
C18 <= HC < C20	0.27	0.010	"	"	"	"	"	"	
C20 <= HC < C24	0.48	0.010	"	"	"	"	"	"	
C24 <= HC < C28	0.57	0.010	"	"	"	"	"	"	
C28 <= HC < C32	0.46	0.010	"	"	"	"	"	"	
HC >= C32	0.030	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	3.6	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		121 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EB083106 (0609011-05) Liquid Sampled: 08/31/06 10:50 Received: 09/01/06 11:40</b>									
HC < C8	ND	0.010	mg/L	1	B6I0838	09/07/06	09/07/06	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
C12 <= HC < C14	ND	0.010	"	"	"	"	"	"	
C14 <= HC < C16	ND	0.010	"	"	"	"	"	"	
C16 <= HC < C18	ND	0.010	"	"	"	"	"	"	
C18 <= HC < C20	ND	0.010	"	"	"	"	"	"	
C20 <= HC < C24	ND	0.010	"	"	"	"	"	"	
C24 <= HC < C28	ND	0.010	"	"	"	"	"	"	
C28 <= HC < C32	ND	0.010	"	"	"	"	"	"	
HC >= C32	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		101 %	60-175		"	"	"	"	
<b>FB083106 (0609011-06) Liquid Sampled: 08/31/06 10:45 Received: 09/01/06 11:40</b>									
HC < C8	ND	0.010	mg/L	1	B6I0838	09/07/06	09/07/06	EPA 8015B	
C8 <= HC < C9	ND	0.010	"	"	"	"	"	"	
C9 <= HC < C10	ND	0.010	"	"	"	"	"	"	
C10 <= HC < C11	ND	0.010	"	"	"	"	"	"	
C11 <= HC < C12	ND	0.010	"	"	"	"	"	"	
C12 <= HC < C14	ND	0.010	"	"	"	"	"	"	
C14 <= HC < C16	ND	0.010	"	"	"	"	"	"	
C16 <= HC < C18	ND	0.010	"	"	"	"	"	"	
C18 <= HC < C20	ND	0.010	"	"	"	"	"	"	
C20 <= HC < C24	ND	0.010	"	"	"	"	"	"	
C24 <= HC < C28	ND	0.010	"	"	"	"	"	"	
C28 <= HC < C32	ND	0.010	"	"	"	"	"	"	
HC >= C32	ND	0.010	"	"	"	"	"	"	
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	"	"	"	"	"	"	
Surrogate: o-Terphenyl		95.0 %	60-175		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW1083106 (0609011-01) Liquid Sampled: 08/31/06 09:20 Received: 09/01/06 11:40</b>									
Benzene	ND	1.0	µg/L	1	B610614	09/05/06	09/05/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	8.4	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	3.6	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	1.8	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

**Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW1083106 (0609011-01) Liquid Sampled: 08/31/06 09:20 Received: 09/01/06 11:40</b>									
Methylene chloride	ND	1.0	µg/L	1	B610614	09/05/06	09/05/06	EPA 8260B	
<b>Methyl tert-butyl ether</b>	<b>2.0</b>	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
<b>Trichloroethene</b>	<b>21</b>	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
<b>Vinyl chloride</b>	<b>9.9</b>	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		107 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		104 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		107 %	86-115		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

# **Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW2083106 (0609011-02) Liquid Sampled: 08/31/06 09:49 Received: 09/01/06 11:40</b>									
<b>Benzene</b>	<b>3.1</b>	1.0	µg/L	1	B610614	09/05/06	09/05/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	<b>12</b>	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	<b>1.7</b>	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	<b>57</b>	1.0	"	"	"	"	"	"	
<b>p-Isopropyltoluene</b>	<b>3.2</b>	1.0	"	"	"	"	"	"	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

**Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW2083106 (0609011-02) Liquid Sampled: 08/31/06 09:49 Received: 09/01/06 11:40</b>									
Methylene chloride	ND	1.0	µg/L	1	B6I0614	09/05/06	09/05/06	EPA 8260B	
Methyl tert-butyl ether	3.0	1.0	"	"	"	"	"	"	
Naphthalene	12	1.0	"	"	"	"	"	"	
n-Propylbenzene	3.5	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	47	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		103 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		105 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %	86-115		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW3083106 (0609011-03) Liquid Sampled: 08/31/06 10:21 Received: 09/01/06 11:40</b>									
<b>Benzene</b>	3.7	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	11	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	3.4	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
<b>Ethylbenzene</b>	3.1	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	74	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW3083106 (0609011-03) Liquid Sampled: 08/31/06 10:21 Received: 09/01/06 11:40</b>									
Methylene chloride	ND	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Methyl tert-butyl ether	2.2	1.0	"	"	"	"	"	"	
Naphthalene	8.7	1.0	"	"	"	"	"	"	
n-Propylbenzene	5.3	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	1.6	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	3.4	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	1.2	1.0	"	"	"	"	"	"	
Vinyl chloride	58	1.0	"	"	"	"	"	"	
m,p-Xylene	3.1	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		91.2 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		100 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		114 %	86-115		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW4083106 (0609011-04) Liquid Sampled: 08/31/06 10:42 Received: 09/01/06 11:40									
<b>Benzene</b>	7.6	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
<b>sec-Butylbenzene</b>	13	1.0	"	"	"	"	"	"	
<b>tert-Butylbenzene</b>	1.4	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
<b>Isopropylbenzene</b>	87	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW4083106 (0609011-04) Liquid</b> Sampled: 08/31/06 10:42    Received: 09/01/06 11:40									
Methylene chloride	ND	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Methyl tert-butyl ether	2.8	1.0	"	"	"	"	"	"	
Naphthalene	1.9	1.0	"	"	"	"	"	"	
n-Propylbenzene	8.9	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	1.2	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	54	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.4 %		86-118	"	"	"	"	
Surrogate: Toluene-d8		103 %		88-110	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		86-115	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

# Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EB083106 (0609011-05) Liquid Sampled: 08/31/06 10:50 Received: 09/01/06 11:40</b>									
Benzene	ND	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	2.3	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

**Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>EB083106 (0609011-05) Liquid Sampled: 08/31/06 10:50 Received: 09/01/06 11:40</b>									
Methylene chloride	ND	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.4 %		86-118	"	"	"	"	
Surrogate: Toluene-d8		101 %		88-110	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		109 %		86-115	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

# Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
FB083106 (0609011-06) Liquid Sampled: 08/31/06 10:45 Received: 09/01/06 11:40									
Benzene	ND	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
<b>Chloroform</b>	<b>1.0</b>	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>FB083106 (0609011-06) Liquid Sampled: 08/31/06 10:45 Received: 09/01/06 11:40</b>									
Methylene chloride	ND	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		90.4 %		86-118	"	"	"	"	
Surrogate: Toluene-d8		101 %		88-110	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %		86-115	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

### Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB083106 (0609011-07) Liquid Sampled: 08/31/06 00:00 Received: 09/01/06 11:40									
Benzene	ND	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Bromobenzene	ND	1.0	"	"	"	"	"	"	
Bromochloromethane	ND	1.0	"	"	"	"	"	"	
Bromodichloromethane	ND	1.0	"	"	"	"	"	"	
Bromoform	ND	1.0	"	"	"	"	"	"	
Bromomethane	ND	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	1.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	1.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	1.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	1.0	"	"	"	"	"	"	
Chlorobenzene	ND	1.0	"	"	"	"	"	"	
Chloroethane	ND	1.0	"	"	"	"	"	"	
Chloroform	ND	1.0	"	"	"	"	"	"	
Chloromethane	ND	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	1.0	"	"	"	"	"	"	
Dibromochloromethane	ND	1.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	1.0	"	"	"	"	"	"	
Dibromomethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	1.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	1.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	1.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	1.0	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Ethylbenzene	ND	1.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1.0	"	"	"	"	"	"	
Isopropylbenzene	ND	1.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1.0	"	"	"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd, Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

# Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B

Sierra Analytical Labs, Inc.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TB083106 (0609011-07) Liquid Sampled: 08/31/06 00:00 Received: 09/01/06 11:40									
Methylene chloride	ND	1.0	µg/L	1	B610614	09/05/06	09/06/06	EPA 8260B	
Methyl tert-butyl ether	ND	1.0	"	"	"	"	"	"	
Naphthalene	ND	1.0	"	"	"	"	"	"	
n-Propylbenzene	ND	1.0	"	"	"	"	"	"	
Styrene	ND	1.0	"	"	"	"	"	"	
Tert-amyl methyl ether	ND	1.0	"	"	"	"	"	"	
Tert-butyl alcohol	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1.0	"	"	"	"	"	"	
Tetrachloroethene	ND	1.0	"	"	"	"	"	"	
Toluene	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1.0	"	"	"	"	"	"	
Trichloroethene	ND	1.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.0	"	"	"	"	"	"	
Vinyl chloride	ND	1.0	"	"	"	"	"	"	
m,p-Xylene	ND	1.0	"	"	"	"	"	"	
o-Xylene	ND	1.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		89.4 %	86-118		"	"	"	"	
Surrogate: Toluene-d8		102 %	88-110		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		110 %	86-115		"	"	"	"	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

**Total Petroleum Hydrocarbons Carbon Range Analysis by GC-FID - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B610838 - EPA 3510C Sep Funnel</b>										
<b>Blank (B610838-BLK1)</b>				Prepared & Analyzed: 09/07/06						
HC < C8	ND	0.010	mg/L							
C8 <= HC < C9	ND	0.010	"							
C9 <= HC < C10	ND	0.010	"							
C10 <= HC < C11	ND	0.010	"							
C11 <= HC < C12	ND	0.010	"							
C12 <= HC < C14	ND	0.010	"							
C14 <= HC < C16	ND	0.010	"							
C16 <= HC < C18	ND	0.010	"							
C18 <= HC < C20	ND	0.010	"							
C20 <= HC < C24	ND	0.010	"							
C24 <= HC < C28	ND	0.010	"							
C28 <= HC < C32	ND	0.010	"							
HC >= C32	ND	0.010	"							
Total Petroleum Hydrocarbons (C7-C36)	ND	0.050	"							
Surrogate: o-Terphenyl	0.130		"	0.100		130	60-175			
<b>LCS (B610838-BS1)</b>				Prepared & Analyzed: 09/07/06						
Diesel Range Organics (C10-C24)	0.674	0.050	mg/L	0.750		89.9	80-120			
<b>LCS (B610838-BS2)</b>				Prepared & Analyzed: 09/07/06						
Diesel Range Organics (C10-C24)	0.751	0.050	mg/L	0.750		100	80-120			
<b>LCS Dup (B610838-BSD1)</b>				Prepared & Analyzed: 09/07/06						
Diesel Range Organics (C10-C24)	0.702	0.050	mg/L	0.750		93.6	80-120	4.07	30	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

**Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch B610614 - EPA 5030B P & T**

**Blank (B610614-BLK1)**

Prepared & Analyzed: 09/05/06

Benzene	ND	1.0	µg/L
Bromobenzene	ND	1.0	"
Bromochloromethane	ND	1.0	"
Bromodichloromethane	ND	1.0	"
Bromoform	ND	1.0	"
Bromomethane	ND	1.0	"
n-Butylbenzene	ND	1.0	"
sec-Butylbenzene	ND	1.0	"
tert-Butylbenzene	ND	1.0	"
Carbon tetrachloride	ND	1.0	"
Chlorobenzene	ND	1.0	"
Chloroethane	ND	1.0	"
Chloroform	ND	1.0	"
Chloromethane	ND	1.0	"
2-Chlorotoluene	ND	1.0	"
4-Chlorotoluene	ND	1.0	"
Dibromochloromethane	ND	1.0	"
1,2-Dibromo-3-chloropropane	ND	5.0	"
1,2-Dibromoethane (EDB)	ND	1.0	"
Dibromomethane	ND	1.0	"
1,2-Dichlorobenzene	ND	1.0	"
1,3-Dichlorobenzene	ND	1.0	"
1,4-Dichlorobenzene	ND	1.0	"
Dichlorodifluoromethane	ND	1.0	"
1,1-Dichloroethane	ND	1.0	"
1,2-Dichloroethane	ND	1.0	"
1,1-Dichloroethene	ND	1.0	"
cis-1,2-Dichloroethene	ND	1.0	"
trans-1,2-Dichloroethene	ND	1.0	"
1,2-Dichloropropane	ND	1.0	"
1,3-Dichloropropane	ND	1.0	"
2,2-Dichloropropane	ND	1.0	"
1,1-Dichloropropene	ND	1.0	"
cis-1,3-Dichloropropene	ND	1.0	"
trans-1,3-Dichloropropene	ND	1.0	"
Di-isopropyl ether	ND	1.0	"
Ethyl tert-butyl ether	ND	1.0	"

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

**Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch B610614 - EPA 5030B P & T**

**Blank (B610614-BLK1)**

Prepared & Analyzed: 09/05/06

Ethylbenzene	ND	1.0	µg/L							
Hexachlorobutadiene	ND	1.0	"							
Isopropylbenzene	ND	1.0	"							
p-Isopropyltoluene	ND	1.0	"							
Methylene chloride	ND	1.0	"							
Methyl tert-butyl ether	ND	1.0	"							
Naphthalene	ND	1.0	"							
n-Propylbenzene	ND	1.0	"							
Styrene	ND	1.0	"							
Tert-amyl methyl ether	ND	1.0	"							
Tert-butyl alcohol	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	1.0	"							
1,1,2,2-Tetrachloroethane	ND	1.0	"							
Tetrachloroethene	ND	1.0	"							
Toluene	ND	1.0	"							
1,2,3-Trichlorobenzene	ND	1.0	"							
1,2,4-Trichlorobenzene	ND	1.0	"							
1,1,1-Trichloroethane	ND	1.0	"							
1,1,2-Trichloroethane	ND	1.0	"							
Trichloroethene	ND	1.0	"							
Trichlorofluoromethane	ND	1.0	"							
1,2,3-Trichloropropane	ND	1.0	"							
1,2,4-Trimethylbenzene	ND	1.0	"							
1,3,5-Trimethylbenzene	ND	1.0	"							
Vinyl chloride	ND	1.0	"							
m,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	"							
Surrogate: Dibromofluoromethane	55.6		"	50.0		111	86-118			
Surrogate: Toluene-d8	52.5		"	50.0		105	88-110			
Surrogate: 4-Bromofluorobenzene	53.8		"	50.0		108	86-115			

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

**Volatile Organics & Fuel Oxygenates (GC/MS) by EPA Method 8260B - Quality Control**

**Sierra Analytical Labs, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch B6I0614 - EPA 5030B P & T**

**LCS (B6I0614-BS1)**

Prepared & Analyzed: 09/05/06

Benzene	52.8	1.0	µg/L	50.0		106	80-120			
Chlorobenzene	47.5	1.0	"	50.0		95.0	80-120			
1,1-Dichloroethene	57.5	1.0	"	50.0		115	80-120			
Toluene	53.0	1.0	"	50.0		106	80-120			
Trichloroethene	52.9	1.0	"	50.0		106	80-120			

**Matrix Spike (B6I0614-MS1)**

Source: 0609019-05

Prepared: 09/05/06 Analyzed: 09/06/06

Benzene	38.2	1.0	µg/L	50.0	ND	76.4	37-151			
Chlorobenzene	40.5	1.0	"	50.0	ND	81.0	37-160			
1,1-Dichloroethene	38.6	1.0	"	50.0	ND	77.2	50-150			
Toluene	39.1	1.0	"	50.0	ND	78.2	47-150			
Trichloroethene	37.2	1.0	"	50.0	ND	74.4	71-157			

**Matrix Spike Dup (B6I0614-MSD1)**

Source: 0609019-05

Prepared: 09/05/06 Analyzed: 09/06/06

Benzene	36.4	1.0	µg/L	50.0	ND	72.8	37-151	4.83	30	
Chlorobenzene	38.6	1.0	"	50.0	ND	77.2	37-160	4.80	30	
1,1-Dichloroethene	35.1	1.0	"	50.0	ND	70.2	50-150	9.50	30	
Toluene	41.2	1.0	"	50.0	ND	82.4	47-150	5.23	30	
Trichloroethene	37.2	1.0	"	50.0	ND	74.4	71-157	0.00	30	

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*



Worley Parsons Komex  
5455 Garden Grove Blvd. Suite 200  
Westminster CA, 92683

Project: APC  
Project Number: H0287D020  
Project Manager: Lee Paprocki

Reported:  
09/13/06 11:20

#### Notes and Definitions

S-03 Surrogate diluted out.  
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*